

Title (en)

Abnormality-determining device and method for fuel supply system

Title (de)

Vorrichtung und Verfahren zur Fehlerbestimmung für ein Kraftstoffzufuhrsystem

Title (fr)

Dispositif déterminant une anomalie et procédé pour système d'alimentation en combustible

Publication

**EP 1832737 A3 20091028 (EN)**

Application

**EP 07004595 A 20070306**

Priority

JP 2006062307 A 20060308

Abstract (en)

[origin: EP1832737A2] A device for determining abnormality of a fuel supply system, which is capable of determining abnormality of the fuel supply system including a fuel pressure sensor (21) more accurately. A device for determining abnormality of a fuel supply system that has a fuel pressure sensor (21) for detecting pressure of fuel in an accumulator (9) as detected fuel pressure calculates a predetermined normal-time fuel pressure indicative of pressure fuel in the accumulator (9) which is to be detected when the system is normal, according to a fuel flow rate relationship parameter indicative of a relationship between an inflow fuel amount parameter indicative of an amount of fuel flowing into the accumulator (9) and an outflow fuel amount parameter indicative of an amount of fuel flowing out of the accumulator (9), and determines abnormality of the fuel supply system based on a result of comparison between the detected fuel pressure and the calculated normal-time fuel pressure.

IPC 8 full level

**F02D 41/38** (2006.01); **G01M 99/00** (2011.01)

CPC (source: EP US)

**F02D 41/22** (2013.01 - EP US); **F02D 41/3845** (2013.01 - EP US); **F02D 41/3863** (2013.01 - EP US); **F02M 59/366** (2013.01 - EP US); **F02M 63/025** (2013.01 - EP US); **F02D 2041/224** (2013.01 - EP US); **F02D 2200/0602** (2013.01 - EP US); **F02D 2200/0604** (2013.01 - EP US)

Citation (search report)

- [X] WO 9934187 A1 19990708 - SIEMENS AG [DE], et al
- [I] DE 10354656 A1 20050623 - BOSCH GMBH ROBERT [DE]
- [I] EP 0976921 A2 20000202 - BOSCH GMBH ROBERT [DE]
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- [XI] US 5616837 A 19970401 - LEONARD MICHAEL D [US], et al

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**EP 1832737 A2 20070912**; **EP 1832737 A3 20091028**; **EP 1832737 B1 20110914**; JP 2007239573 A 20070920; JP 4659648 B2 20110330; US 2007209430 A1 20070913; US 7438052 B2 20081021

DOCDB simple family (application)

**EP 07004595 A 20070306**; JP 2006062307 A 20060308; US 71415407 A 20070306